

# United States Patent and Trademark Office



APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/072,929		02/12/2002	Pei-Chung Liu	MR1115-378	3749
4586	7590	09/22/2005		EXAM	INER
		EIN & LEE	BAUM, RONALD		
ELLICOTT		NTER DRIVE-S ID 21043	OHE 101	ART UNIT	PAPER NUMBER
	,			2136	· <del>- · · · · · · · · · · · · · · · · · ·</del>
				DATE MAIL ED: 00/22/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/072,929	LIU, PEI-CHUNG
Office Action Summary	Examiner	Art Unit
	Ronald Baum	2136
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING DA  Extensions of time may be available under the provisions of 37 CFR 1.11 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period versions of the period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI	J.  lely filed  the mailing date of this communication.  O (35 U.S.C. § 133).
Status		
1)☐ Responsive to communication(s) filed on  2a)☐ This action is FINAL. 2b)☒ This  3)☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-8 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) 1-8 is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or		
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the correction Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is objected.	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	4)  Interview Summary ( Paper No(s)/Mail Dat 5)  Notice of Informal Pa	
Paper No(s)/Mail Date  J.S. Patent and Trademark Office	6)	
	ion Summary Part	of Paper No./Mail Date 09132005

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#### **DETAILED ACTION**

1. Claims 1-8 are pending for examination.

2. Claims 1- 8 are rejected.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1- 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Sarat, U.S. Patent 6,581,122 B1.
- 4. As per claim 1; "A USB-based data security device comprising:
  - a USB mass storage class controller connected to a USB-interfaced operation system for carrying out USB protocol commands issued by the operation system [Abstract, col. 1,line 20-col. 8,line 12, whereas the processor based smartcard with USB interfacing (i.e., figure 3 and associated description) is used '... to control the communications from the CPU 10 to any other peripheral devices (i.e., the computer RAM, hard drive, or any other mass storage associated with said computer) ...', '... a personal computer with a USB port is inherently smartcard enabled...', and '... (i.e., col. 7,lines 7-60) bulk encryption and decryption, where the card can operate as a pass-through device.', clearly encompasses the claimed limitations as broadly interpreted by the examiner.]; and

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a data protection device connecting the USB mass storage class controller to a data storage device,

the data protection device comprising

a write protection unit,

an enciphering unit and

a deciphering unit,

the write protection unit and

the enciphering unit respectively providing

write protection of the data storage medium and enciphering data when data are to be written by the operation system into the data storage medium, the deciphering unit

deciphering data from the data storage medium when the operation system reads the data from the data storage medium [Abstract, col. 1,line 20-col. 8,line 12, whereas the processor based smartcard with USB interfacing (i.e., figure 3 and associated description) is used '... to control the communications from the CPU 10 to any other peripheral devices (i.e., the computer RAM, hard drive, or any other mass storage associated with said computer) ...', '... a personal computer with a USB port is inherently smartcard enabled...', and '... (i.e., col. 7,lines 7-60) bulk encryption and decryption, where the card can operate as a

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pass-through device.', clearly encompasses the claimed limitations as broadly interpreted by the examiner.].".

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5. Claim 2 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 1, wherein

the USB mass storage class controller and

the data protection device are incorporated in

a USB-based data accessing device.".

The teachings of Sarat suggest such limitations (Abstract, col. 1,line 20-col. 8,line 12, whereas the processor based smartcard with USB interfacing (i.e., figure 3 and associated description) is used '... to control the communications from the CPU 10 to any other peripheral devices (i.e., the computer RAM, hard drive, or any other mass storage associated with said computer) ...', '... a personal computer with a USB port is inherently smartcard enabled...', and '... (i.e., col. 7,lines 7-60) bulk encryption and decryption, where the card can operate as a pass-through device.', and further, where the smartcard clearly can interface with the computer and its associated interface devices (... USB-based data accessing device ...), clearly encompasses the claimed limitations as broadly interpreted by the examiner.).

6. Claim 3 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 2, wherein

the USB-based data accessing device comprises

a USB-based card reader.".

The teachings of Sarat suggest such limitations (Abstract, col. 1,line 20-col. 8,line 12, whereas the processor based smartcard with USB interfacing (i.e., figure 3 and associated description) is used '... to control the communications from the CPU 10 to any other peripheral devices (i.e., the computer peripheral devices inclusive of plural smartcard(s) readers associated with said computer) ...', '... a personal computer with a USB port is inherently smartcard enabled...', and '... (i.e., col. 7,lines 7-60) bulk encryption and decryption, where the card can operate as a pass-through device.', and further, where the smartcard clearly can interface with the computer and its associated interface devices (... USB-based card reader ...), clearly encompasses the claimed limitations as broadly interpreted by the examiner.).

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4-8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sarat, U.S. Patent 6,581,122 B1 as applied to claim 1 above.

7. Claim 4 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 1, wherein

the data storage medium comprises a compact flash card.".

8. Claim 5 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 1, wherein

the data storage medium comprises a multi-media card.".

9. Claim 6 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 1, wherein

the data storage medium comprises a memory stick.".

10. Claim 7 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 1, wherein

the data storage medium comprises a smart media card.".

11. Claim 8 *additionally recites* the limitation that; "The USB-based data security device as claimed in claim 1, wherein

the data storage medium comprises a security digital card.".

The teachings of Sarat suggest the base claims limitations (see "As per claim 1..."

paragraph above) without explicitly teaching of the use of "... the data storage medium

comprises ... compact flash card ... multi-media card ... memory stick ... smart media card ...

security digital card", as a form of mass storage functionality per se.

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It would have been obvious to one ordinary skill in the art at the time the invention was made to store any type of information including sensitive, encrypted, or otherwise, data in any generally electrically compatible mass storage device/system component. A recitation directed to the manner in which a claimed apparatus is *intended to be used does not distinguish the claimed apparatus from the prior art if prior art has the capability to do so perform* (See MPEP 2114 and Ex Parte Masham, 2 USPQ2d 1647 (1987)). The prior art is replete with references disclosing generally electrically compatible mass storage device/system components used to store any type of information including sensitive, encrypted, or otherwise, data.

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#### Conclusion

12. Any inquiry concerning this communication or earlier communications from examiner should be directed to Ronald Baum, whose telephone number is (571) 272-3861, and whose unofficial Fax number is (571) 273-3861. The examiner can normally be reached Monday through Thursday from 8:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh, can be reached at (571) 272-3795. The Fax number for the organization where this application is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. For more information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ronald Baum

**Patent Examiner** 

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